Ham-Homebrew Digest   Sun, 26 Jun 94   Volume 94 : Issue 174

Today's Topics:
                    49MHz walkie talkies lega
                    Connecting frequency coun
              need info on Helical filter design
                PADS and single-point grounds

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 24 Jun 94 13:18:00 -0600
From: ihnp4.ucsd.edu!library.ucla.edu!agate!iat.holonet.net!sound!
richard.dale@network.ucsd.edu
Subject: 49MHz walkie talkies lega
To: ham-homebrew@ucsd.edu

AU>don't want to lose it. Can a 49MHz walkie talkie(runs from a 9v battery)
AU>be converted to run on other bands, such as 440, legally? I thouhtabout
AU>changing the crystal and antenna to the frequency I want. Please do not

    Legally, yes. Easily, no. You're looking at moving a cheap
    piece of equipment almost 400 MHz. That's akin to converting
    a Radio Shack Flavoradio to pick up TV.

    Say you spend $20 for a pair of those units. Figure on spending
    at least another $50-$100 in attempting to convert them over.
    Then look at Ramsey's catalog -- a five-watt, 12-channel 440 MHz
    unit for $149.95 (less case).

I've heard of people moving those units up to 6 meters with varying
        degrees of success, though.

        The best I've heard is some guy who mounted one up on a tower and
        operated it by remote control with his shack. He had worked
        six states when I read the article.

 ¿ DeLuxe″ 1.26b #2989 ¿ Bill Clinton is in Psalms 109:8

Date: Fri, 24 Jun 94 13:27:00 -0600
From: ihnp4.ucsd.edu!agate!iat.holonet.net!sound!richard.dale@network.ucsd.edu
Subject: Connecting frequency coun
To: ham-homebrew@ucsd.edu

HA>I have an old receiver (tubes, .5-30 MHz) with analog tuning.
HA>I also have a frequency counter which I want to connect so
HA>as to be more accurate in determining the frequency I am

        If you know how to get in touch with the International Radio Club
        of America (IRCA), they had a group of members who did something
        similar back in the mid 70s. They would get really good
        accuracy, often to the point of being able to ID a station
        simply by its frequency. IRCA has a reprint service, and that
        info should be available. I don't have their address, but it
        should be in the WRTH.

 ¿ DeLuxe″ 1.26b #2989 ¿ Bill Clinton is in Psalms 109:8

Date: 25 Jun 1994 05:16:24 GMT
From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!agate!spool.mu.edu!bloom-
beacon.mit.edu!senator-bedfellow.mit.edu!news.mit.edu!monta@network.ucsd.edu
Subject: need info on Helical filter design
To: ham-homebrew@ucsd.edu

achien@lsil.com (Arthur Chien - 4582) writes:

> I am looking for information on how to design a "Helical filter".
> Any books, papers or design equations available for this kind of
> filters? I know "TOKO coil" make this kind of filters but I need to
> custom design my own filter.

VHF/UHF Handbook, by Jessop, has a good description of helical
filter design; the ARRL Handbook also has a section on them.
Zverev's classic filter design book has a very interesting

chapter on resonators of various sorts, including helicals
at VHF and HF.

I recently ran across a book, whose title escapes me (from
Artech House?), specifically about helical filters and how
to avoid 3\lambda/4 spurs and other annoyances. The author
advocates using a coil with a sense reversal partway along it.

Peter Monta   monta@image.mit.edu
MIT Advanced Television Research Program

Date: 25 Jun 1994 17:57:26 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!MathWorks.Com!
news.kei.com!news.byu.edu!news@network.ucsd.edu
Subject: PADS and single-point grounds
To: ham-homebrew@ucsd.edu

I've been trying to get the shareware PADS to bring all grounds in my
circuit into a single point, without success. I don't seem to have any
control over which pins have the physical connections -- I can connect
all grounds to a single point on the schematic, but when it's imported
into PADS-PCB, that information is lost and PADS re-connects the pins in
a daisy-chain format.

Any suggestions?

--
Ed Haymore | AA6EJ
ed@byu.edu | Try not. Do. Or do not. There is no try.

End of Ham-Homebrew Digest V94 #174
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